

## Abstract

The invention relates to a method and a system for monitoring the functional capability of a particle detector (3), having a particle detector (3) connected downstream, in the flow direction (2), of a particle filter (7), in which it is proposed that particles occurring upon the regeneration of the particle filter (7), in particular ions, be detected by the particle detector (3) and the resultant measurement finding be compared with an expected finding. The measurement and evaluation are effected in the control and evaluation unit (9). The invention enables monitoring of the functional capability of a particle detector (3) that does not interrupt normal operation and thus increases the reliability of the entire system.

10 (Drawing)